

**Notice of Allowability**

Application No.

10/675,662

Examiner

Thai-Ba Trieu

Applicant(s)

BARNES ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Amendment filed on August 23, 2004.
2. ☒ The allowed claim(s) is/are 1,6,7,9-14 and 16-20.
3. ☒ The drawings filed on 30 September 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date hereto.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

### **DETAILED ACTION**

This Office Action is in response to the Amendment filed on August 23, 2004. Claims 1, 6, 9-10, and 14 were amended; claims 2-5, 8, and 15 were cancelled.

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. David J. Simonelli (Reg. No. 36,680) on Wednesday March 02, 2005.

The application has been amended as follows:

Claim 1 has been replaced by the following, because the amended limitations in the last paragraph of claim 1, filed on August 23, 2004, have not been marked-up.

-- 1. (Currently Amended) A supercharging assembly for increasing an amount of air received through an inlet port of an internal combustion engine of a motor vehicle having a hood extending thereover, said supercharging assembly comprising:

a lower intake manifold fixedly secured to the internal combustion engine;

a blower operatively connected to said lower intake manifold for forcing air into said lower intake manifold with increased pressure to create charged air,

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said blower including a shaft housing extending outwardly therefrom to a shaft distal end;

a blower pulley fixedly secured to said shaft distal end;

a blower belt extending between said blower pulley and the internal combustion engine to allow the internal combustion engine to drive said blower;

a variable tensioning mechanism to adjust tension in said blower belt;

a spacer defining an air flow path between said inlet duct and the inlet port;

an inlet duct operatively connected between the inlet port and said blower for directing the air into said blower; and

an output plate fixedly secured to said lower intake manifold for mounting said blower to said lower intake manifold, said output plate including a recess extending down into said lower intake manifold such that said blower is mounted to said recess to provide clearance for the hood to move to a closed position over the internal combustion engine; and

a cooling system for cooling said charged air stored in said lower intake manifold, said cooling system including an inner heat exchanger, disposed within said lower intake manifold below said output plate to collect thermal energy stored in said charged air, and an exterior heat exchanger to remove thermal energy from said cooling system collected by said inner heat exchanger." --

***Allowable Subject Matter***

The following is an examiner's statement of reasons for allowance: None of the cited prior art alone or in combination teaches the claimed combination of a supercharging assembly for increasing an amount of air received through an inlet port of an internal combustion engine including:

“ Regarding claim 1:

*an exterior heat exchanger to remove thermal energy from said cooling system collected by said inner heat exchanger.*

Regarding claim 15:

*a recess having a connecting wall extending between the frame and the blower plate to space the blower plate in relation to the frame.”*

***Conclusion***

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai-Ba Trieu whose telephone number is (571) 272-4867. The examiner can normally be reached on Monday - Thursday (6:30-5:00).


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion can be reached on (571) 272-4859. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTB  
March 02, 2005

  
Thai-Ba Trieu  
Primary Examiner  
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